(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 4 November 2004 (04.11.2004)

PCT

(10) International Publication Number WO 2004/094371 A2

(51) International Patent Classification7:

C07D

(21) International Application Number:

PCT/US2004/011463

(22) International Filing Date: 14 April 2004 (14.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/463,673

17 April 2003 (17.04.2003) US

- (71) Applicants (for all designated States except US): MERCK & CO., INC. [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). MERCK SHARP & DOHME LIMITED [GB/GB]; Hertford Road, Hoddesdon Hertfordshire EN11 9BU (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BUTORA, Gabor [CZ/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). GOBLE, Stephen, D. [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). PASTERNAK, Alexander [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). YANG, Lihu [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). ZHOU, Changyou [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). MOYES, Christopher, R. [GB/GB];

Hertford Road, Hoddesdon Hertfordshire EN11 9BU (GB).

- (74) Common Representative: MERCK & CO., INC.; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, IP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FT, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HETEROCYCLIC CYCLOPENTYL TETRAHYDROISOQUINOLINE AND TETRAHYDROPYRIDOPYRIDINE MODULATORS OF CHEMOKINE RECEPTOR ACTIVITY

(57) Abstract: The present invention is directed to compounds of formula (I), wherein R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, X, n and the broken lines are as defined herein which are useful as modulators of chemokine receptor activity. In particular, these compounds are useful as modulators of the chemokine receptor CCR-2.